Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI(NEW) EXAMINATION - WINTER 2022

Subject Cod	de:3161916		Date:16-12-2022		
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Subject Name:Product Development and Entrepreneurship

Time:02:30 PM TO 05:00 PM Total Marks:70

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.

		Figures to the right indicate full marks. Simple and non-programmable scientific calculators are allowed.	
		Simple and non-brokenings are also here	MARKS
Q.1	(a)	Define product development? Give four example of product development.	03
	(b)	Describe briefly the phases of product life cycles.	04
	(c)	Define product planning. Explain the product planning process in detail.	07
Q.2	(a)	Why affinity diagrams are used for product planning?	03
	(b)	Explain briefly the concept of reverse engineering for product development.	04
	(c)	methodology? Explain in detail.	07
	(c)	OR Describe the various methods used to determine customer need importance.	07
Q.3	(a)	Enlist the steps required to target the product specifications.	03
	(b)	How is the design for assembly (DFA) methodology important to minimize the cost of assembly? Explain briefly.	04
	(c)	What is product modularity? Explain various types of product modularity.	07
		OR	
Q.3	(a)	What is design for maintainability of the product?	03
	(b)	Explain free-form fabrication method (additive manufacturing) as a prototyping technique.	04
	(c)	Describe the function analysis approach used for product development.	07
Q.4	(a)	Enlist characteristics required for successful entrepreneurs.	03
	(b)	Differentiate between managerial v/s entrepreneurial approaches.	04
	(c)	How the marketing plan for the new venture can be prepared? Describe with detail steps.	07

Q.4	(a)	Enlist the factors impacting emergence of entrepreneurship.	03
	(b)	Explain role of entrepreneurship in economic development.	04
	(c)	What is Performa balance sheet? How the break even analysis is useful for new venture?	07
Q.5	(a) (b)	How the manpower planning is important for entrepreneur? Describe in detail the importance of feasibility study for a new venture.	03 04
	(c)	What is patent? Explain in detail about design and utility patents.	07
		OR	
Q.5	(a)	How the financial planning can be done by entrepreneur for the new venture?	03
	(b)	Enlist the necessary steps have to be followed by an entrepreneur while drawing a business plan.	04
	(c)	Describe in details the terminology related with intellectual property rights (i) trademarks (ii) trade secrets (iii) franchising.	07
